

What is claimed is:

1 1. A mobile communication terminal for performing reception
2 and transmission using an adaptive array method, the mobile
3 communication terminal being provided with (a) a plurality of
4 antennas, (b) reception means for forming a directivity pattern
5 for receiving a desired reception signal and receiving the
6 reception signal using the formed directivity pattern, and (c)
7 transmission means for transmitting a transmission signal using
8 the directivity pattern formed in reception, the mobile
9 communication terminal comprising:

10 detection means for detecting a reception error in the
11 reception signal; and

12 transmission control means for controlling the
13 transmission means when the detection means detects the
14 reception error so that a pattern different from the directivity
15 pattern formed in reception is formed and the transmission
16 signal is transmitted in the formed pattern.

1 2. The mobile communication terminal of Claim 1,
2 wherein when the detection means detects the reception
3 error, the transmission control means controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas, and the transmission signal is
6 transmitted in the non-directional pattern.

1 3. The mobile communication terminal of Claim 2,

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wherein when the detection means detects the reception error, the transmission control means controls the transmission means so that the non-directional pattern is formed using one of the plurality of antennas that has the largest antenna gain, and the transmission signal is transmitted in the non-directional pattern.

4. The mobile communication terminal of Claim 2 further comprising:

selection means for measuring a quality of the reception signal for each of the plurality of antennas and selecting an antenna with the highest reception quality,

wherein when the detection means detects the reception error, the transmission control means controls the transmission means so that the non-directional pattern is formed using the antenna selected by the selection means, and the transmission signal is transmitted in the non-directional pattern.

5. A communication method used for a mobile communication terminal for performing reception and transmission using an adaptive array method, the mobile communication terminal being provided with (a) a plurality of antennas, (b) reception means for forming a directivity pattern for receiving a desired reception signal and receiving the reception signal using the formed directivity pattern, and (c) transmission means for transmitting a transmission signal using the directivity

9 pattern formed in reception, the mobile communication terminal
10 comprising:

11 detection step for detecting a reception error in the
12 reception signal; and

13 transmission control step for controlling the
14 transmission means when the detection step detects the
15 reception error so that a pattern different from the directivity
16 pattern formed in reception is formed and the transmission
17 signal is transmitted in the formed pattern.

1 6. The communication method of Claim 5,

2 wherein when the detection step detects the reception
3 error, the transmission control step controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas, and the transmission signal is
6 transmitted in the non-directional pattern.

1 7. The communication method of Claim 6,

2 wherein when the detection step detects the reception
3 error, the transmission control step controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas that has the largest antenna gain,
6 and the transmission signal is transmitted in the
7 non-directional pattern.

1 8. The communication method of Claim 6 further comprising:

2 selection step for measuring a quality of the reception

3 signal for each of the plurality of antennas and selecting an
 4 antenna with the highest reception quality,
 5 wherein when the detection step detects the reception
 6 error, the transmission control step controls the transmission
 7 means so that the non-directional pattern is formed using the
 8 antenna selected by the selection step, and the transmission
 9 signal is transmitted in the non-directional pattern.

1 9. A program to be executed by a computer in a mobile
 2 communication terminal for performing reception and
 3 transmission using an adaptive array method, the mobile
 4 communication terminal being provided with (a) a plurality of
 5 antennas, (b) reception means for forming a directivity pattern
 6 for receiving a desired reception signal and receiving the
 7 reception signal using the formed directivity pattern, and (c)
 8 transmission means for transmitting a transmission signal using
 9 the directivity pattern formed in reception, the mobile
 10 communication terminal comprising:

11 detection step for detecting a reception error in the
 12 reception signal; and

13 transmission control step for controlling the
 14 transmission means when the detection step detects the
 15 reception error so that a pattern different from the directivity
 16 pattern formed in reception is formed and the transmission
 17 signal is transmitted in the formed pattern.

1 10. The program of Claim 9,

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2 wherein when the detection step detects the reception
3 error, the transmission control step controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas, and the transmission signal is
6 transmitted in the non-directional pattern.

1 11. The program of Claim 10,

2 wherein when the detection step detects the reception
3 error, the transmission control step controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas that has the largest antenna gain,
6 and the transmission signal is transmitted in the
7 non-directional pattern.

1 12. The program of Claim 10 further comprising:

2 selection step for measuring a quality of the reception
3 signal for each of the plurality of antennas and selecting an
4 antenna with the highest reception quality,

5 wherein when the detection step detects the reception
6 error, the transmission control step controls the transmission
7 means so that the non-directional pattern is formed using the
8 antenna selected by the selection step, and the transmission
9 signal is transmitted in the non-directional pattern.

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